Supplementary Materials

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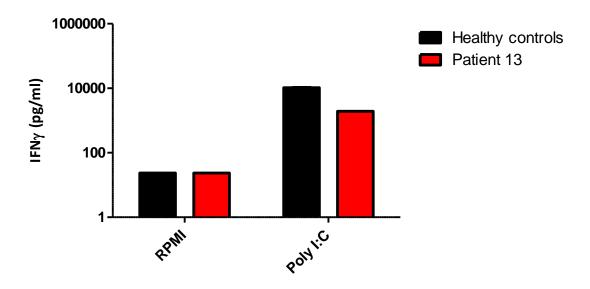


Figure S1. Production of IFN- γ in peripheral blood mononuclear cells from patient 13 and two healthy male controls after stimulation with the TLR3 agonist Poly I:C ($25\mu g/mL$) or the negative medium control RPMI for 7 days. Absolute IFN- γ values are represented on a log-based scale.

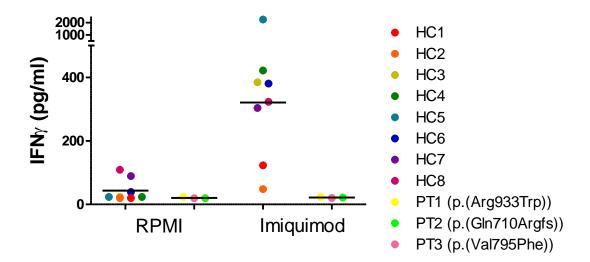


Figure S2. Production of IFN- γ in peripheral blood mononuclear cells isolated from healthy male controls or TLR7 patients in independent experiments after 7 day stimulation with the TLR7 agonist imiquimod (5µg/mL) or the negative medium control RPMI. Data from PT2 and PT3 correspond to absolute values as documented for patients F1.II.1 and F2.II.1, respectively, in the previous paper of van der Made et al. JAMA 2020(1). Horizontal lines represent grand means.

Table S1. In silico results from the mutation interpretation software Alamut Visual v.2.5.0 of the *TLR7* variants identified in this work

TLR7 cDNA change	c.644A>G	c.2797T>C	
Protein predicted change	p.Asn215Ser	p.Trp933Arg	
	Highly conserved nucleotide	Moderately conserved nucleotide	
phyloP	(score:4.64)	(score:3.27)	
	Highly conserved aminoacid, up	Highly conserved aminoacid, up	
Orthologues Alignments	to zebrafish (11 species)	to fruitfly (12 species)	
Grantham	Small:46	Moderate:101	
Align GVGD	C45	C25	
SIFT	Deleterious (score:0)	Deleterious (score: 0)	
MutationTaster	Disease causing (probability:1)	Disease causing (probability: 1)	
PolyPhen HumDiv	Possibly damaging (score:0.78)	Probably damaging (score:1)	
PolyPhen HumVar	Possibly damaging (score:0.54)	Probably damaging (score:0.99)	

References

1.- van der Made CI, Simons A, Schuurs-Hoeijmakers J, van den Heuvel G, Mantere T, Kersten S, et al. Presence of Genetic Variants Among Young Men With Severe COVID-19. *JAMA* (2020) 324(7):663-73. doi: 10.1001/jama.2020.13719.